

Datasheet for ABIN7654737  
**anti-GNAQ antibody (CF®568)**



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## Overview

|              |                                            |
|--------------|--------------------------------------------|
| Quantity:    | 100 µL                                     |
| Target:      | GNAQ                                       |
| Reactivity:  | Human                                      |
| Host:        | Mouse                                      |
| Clonality:   | Monoclonal                                 |
| Conjugate:   | This GNAQ antibody is conjugated to CF®568 |
| Application: | Please inquire                             |

## Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Guanine nucleotide-binding protein alpha-q / GNAQ / G-ALPHA-q(GNAQ/2434), CF568 conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen:       | Recombinant full-length human GNAQ protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clone:           | GNAQ-2434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype:         | IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Characteristics: | GNAQ is 359 amino acids long and is identical in all but 1 amino acid residue to the mouse protein. Analysis of human genomic DNA revealed an intronless sequence with strong homology to human GNAQ cDNA. In comparison to GNAQ cDNA, this genomic DNA sequence included several small deletions and insertions that altered the reading frame, multiple single based changes, and a premature termination codon in the open reading frame, all hallmarks of a processed pseudogene. Probes derived from human GNAQ cDNA sequence mapped both chromosomes 2 and 9 in higher stringency genomic blot analyses of DNA from a panel of |

## Product Details

human/rodent hybrid cell lines. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | GNAQ                                                                                                                                                                                              |
| Alternative Name: | G-Alpha-q                                                                                                                                                                                         |
| Background:       | Synonyms: CMC1, G alpha Q, G protein alpha Q, GAQ, guanine nucleotide binding protein (G protein), q polypeptide, Guanine nucleotide-binding protein G(q) subunit alpha, SWS<br>Gene Symbol: GNAQ |
| Molecular Weight: | 45 kDa                                                                                                                                                                                            |
| Gene ID:          | 2776                                                                                                                                                                                              |
| UniProt:          | <a href="#">P50148</a>                                                                                                                                                                            |
| Pathways:         | <a href="#">JAK-STAT Signaling</a> , <a href="#">Thyroid Hormone Synthesis</a> , <a href="#">Myometrial Relaxation and Contraction</a>                                                            |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | For coating for ELISA, order Ab without BSA. Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user. Recommended starting concentrations for titration are 1-2 µg/mL for most applications, or 1 µg/million cells/100 µL for flow cytometry |
| Comment:           | Positive Control: HL-60, MOLT-4 and MCF-7 cells. Predominantly expressed in ovary, prostate, testis and colon.                                                                                                                                                                                                                                                                                                                        |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Handling

|                |                              |
|----------------|------------------------------|
| Format:        | Liquid                       |
| Concentration: | 0.1 mg/mL                    |
| Buffer:        | PBS, 0.1 % BSA, 0.05 % azide |

## Handling

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|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Preservative:      | Sodium azide                                                                                                                         |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.               |
| Handling Advice:   | Protect from light                                                                                                                   |
| Storage:           | 4 °C                                                                                                                                 |
| Storage Comment:   | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |